QC ABSTRACT

NAME OF WORK: Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	4 set /50-100 cum	62.01	8	8
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.77	2	2

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-15-16** **Date: 28-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 25-07-22

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	27-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/07/2022

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/06/2022	07/07/2022	149.94 X 151.86 X 150.19	22769	8.791	281.4	12.4	12.6
2	PCC	M15	30/06/2022	07/07/2022	149.55 X 149.73 X 151.13	22392	8.174	289.9	12.9	
3	PCC	M15	30/06/2022	07/07/2022	150.94 X 149.82 X 150.67	22614	8.853	280.3	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/06/2022	28/07/2022	149.02 X 151.16 X 151.08	22527	9.051	396.1	17.6	17.4
2	PCC	M15	30/06/2022	28/07/2022	151.09 X 149.06 X 150.90	22522	8.304	389.7	17.3	
3	PCC	M15	30/06/2022	28/07/2022	149.40 X 149.89 X 149.27	22393	8.518	387.6	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	06/07/2022	149.70 X 149.91 X 149.57	22442	8.121	269.9	12.0	12.3
2	PCC	M15	29/06/2022	06/07/2022	150.73 X 150.66 X 150.41	22708	8.249	281.3	12.4	
3	PCC	M15	29/06/2022	06/07/2022	151.55 X 150.06 X 149.71	22743	8.628	284.4	12.5	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

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Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	27/07/2022	150.78 X 151.62 X 150.71	22861	8.882	401.3	17.6	17.5
2	PCC	M15	29/06/2022	27/07/2022	151.41 X 150.48 X 150.08	22784	8.662	399.0	17.5	
3	PCC	M15	29/06/2022	27/07/2022	151.54 X 150.24 X 149.62	22767	8.108	397.0	17.4	

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Date: 06/07/2022

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Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	06/07/2022	151.96 X 150.28 X 150.41	22838	8.816	288.0	12.6	12.8
2	PCC	M15	29/06/2022	06/07/2022	150.52 X 151.66 X 151.69	22828	8.741	293.6	12.9	
3	PCC	M15	29/06/2022	06/07/2022	151.48 X 149.33 X 149.58	22622	8.171	293.5	13.0	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	27/07/2022	151.49 X 149.81 X 151.51	22695	8.710	396.8	17.5	17.4
2	PCC	M15	29/06/2022	27/07/2022	151.91 X 151.77 X 151.02	23056	8.355	393.4	17.1	
3	PCC	M15	29/06/2022	27/07/2022	151.55 X 151.86 X 149.93	23014	8.671	407.8	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

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Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	06/07/2022	150.43 X 150.98 X 149.85	22711	8.893	289.7	12.8	12.5
2	PCC	M15	29/06/2022	06/07/2022	151.21 X 151.81 X 151.55	22955	8.990	281.1	12.2	
3	PCC	M15	29/06/2022	06/07/2022	150.72 X 149.10 X 151.81	22472	8.285	279.4	12.4	

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Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	27/07/2022	149.73 X 149.17 X 150.82	22335	8.603	393.8	17.6	17.6
2	PCC	M15	29/06/2022	27/07/2022	151.46 X 150.57 X 151.88	22805	8.631	390.1	17.1	
3	PCC	M15	29/06/2022	27/07/2022	150.82 X 151.10 X 151.38	22789	8.138	408.7	17.9	

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CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

Lab ID	:	CP-2022-09-15-16
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	06/07/2022	150.88 X 149.61 X 150.11	22573	8.319	280.6	12.4	12.6
2	PCC	M15	29/06/2022	06/07/2022	150.49 X 149.23 X 149.32	22457	8.930	280.6	12.5	
3	PCC	M15	29/06/2022	06/07/2022	151.98 X 151.70 X 149.14	23056	8.773	295.7	12.8	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/06/2022	27/07/2022	149.51 X 151.98 X 151.63	22722	8.874	408.2	18.0	17.8
2	PCC	M15	29/06/2022	27/07/2022	151.55 X 150.13 X 149.45	22752	8.783	406.1	17.8	
3	PCC	M15	29/06/2022	27/07/2022	149.61 X 150.59 X 151.44	22530	9.019	397.2	17.6	

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Kodigehalli Sub Division
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****End of Report****

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Certificate No.: TC-5548

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TEST REPORT OF PRECAST COVER SLAB

Date: 08-07-22

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	04/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.62	100.56	1.119	4490	105.5	23.5	21.9	27.3
2	Cover Slab-2	75.74	100.62	1.132	4505	98.5	21.9	20.3	25.4
3	Cover Slab-3	75.81	100.71	1.145	4513	100.5	22.3	20.7	25.9

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST RESULTS OF STEEL

Date: 28-06-22

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	27-06-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	516	659	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.715	532	675	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.893	565	684	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF FINE AGGREGATE

Date: 29-06-22

Lab ID	:	**CP-2022-09-15-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-06-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	39	39	3.9	96.1	90-100	90-100	90-100	95-100
3	2.36 mm	56	95	9.5	90.5	60-95	75-100	85-100	95-100
4	1.18 mm	235	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	269	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	220	819	81.9	18.1	5-20	8-30	12-40	15-50
7	150 micron	163	982	98.2	1.8	0-10	0-10	0-10	0-15
8	Pan	18	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-15-16**

Date: 29-06-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.46	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-15-16** **Date: 29-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-15-16** **Date: 29-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Kodigehalli Sub Division
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-15-16** **Date: 29-06-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains in Hoysala Layout in Ward No.07 Byatarayanapura
Agency	:	Sri. Siddesha, No:141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/22/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-06-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-15-16** **Date: 29-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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Kodigehalli Sub Division
BBMP, Bangalore

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